



Laboratory Directed Research and Development (LDRD) Policy and Procedures

CC2.0 Brown Bag

Horst D. Simon
Deputy Director

February 18, 2011

LDRD Program



- **Congressionally allowed with restrictions;
a privilege that can be revoked**
- **About 3% (4.5% with G&A) of the
Laboratory's operating and capital
equipment budgets**
- **Overhead funded**

LDRD Projects ARE...



- **Advanced study of hypotheses, concepts, or innovative approaches to scientific or technical problems**
- **Experiments and analyses directed toward proof-of-principle or early determination of the utility of new scientific ideas, technical concepts, or devices**
- **Conception and preliminary technical analysis of experimental facilities or devices**

LDRD Projects are NOT...



- **Augmentation or supplementation of other funding**
- **Non-R&D activities (except as essential for the project to be self-contained; e.g. not high administrative costs)**
- **Creation or support of Centers, Institutes, or Facilities**
- **Workshops and conferences**

LDRD Rules



- **Relevant to a DOE mission or national need**
- **DOE Order plus other memos (Abraham and Orbach) as incorporated into the Call for Proposals**
- **Follow DOE program rules unless specific LDRD rules (e.g., EH&S, NEPA/CEQA, Human & Animal Use, Travel, Cost Accounting)**
- **Well-managed (e.g., monthly cost profiles)**

Questions



- **Question and Answer Session**
- **Handouts:**
 - Today's presentation
 - LDRD Guidelines
- **Questions on LDRD policy:**

Administrative: Todd Hansen, tchansen@lbl.gov (x6105)



Carbon Cycle 2.0 Core Objectives

- **Advance fundamental science**
 - **Materials science, chemistry, biochemistry and biophysics** to pave the way for new energy-producing and energy-saving technologies
 - **Biology, geology, hydrology, and ecosystem dynamics** to understand natural feedbacks in the climate and hydrologic systems and to promote carbon sequestration and alternative low-carbon natural energy sources
 - **Climate simulations** to enable clear definition of climate change impacts and, by integrating with energy analysis, improve life-cycle analysis of mitigation strategies and new energy technologies
- **Promote integration of applied, use-inspired, and fundamental research** to focus research toward scalable technologies that will impact the global carbon balance, and efficiently transfer fundamental knowledge into technology development.
- **Be a global innovation hub** for science, technology and policy solutions to the world's most critical energy and environmental challenges



Carbon Cycle 2.0 Core Objectives

- **Promote the construction of key analytical and computational facilities** at Berkeley Lab that will facilitate next generation **chemical-, materials-, biological- and geo-science**
- **Educate the public, the neighboring community, and laboratory staff about energy-climate issues** and the role the Lab is playing in addressing them
- **Develop partnerships with UC Berkeley, other national labs and universities, and industry,** to enhance Berkeley Lab's potential to contribute to **energy-climate solutions**
- **Greatly improve energy efficiency and decrease the carbon footprint of the lab site** through the use of **innovative building design and technologies**

Carbon Cycle 2.0

Pioneering science for sustainable energy solutions

